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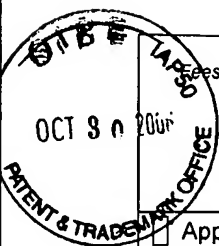
<b>TRANSMITTAL FORM</b> <i>(To be used for all correspondence after initial filing)</i>	Application Number	10/612,713
	Filing Date	July 1, 2003
	First Named Inventor	David A. Tirrell
	Art Unit	1636
	Examiner Name	David Guzo
	Attorney Docket No.	110197.402C1

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement and Transmittal <input checked="" type="checkbox"/> Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC ( <i>Appeal Notice, Brief, Reply Brief</i> ) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Other Enclosure(s) ( <i>please identify below:</i> ) _____ _____ _____ _____
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number <b>00500</b>	
Signature			
Printed Name	William T. Christiansen, Ph.D.		
Date	October 24, 2006	Reg. No.	44,614

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Signature		
Typed or printed name	Jason Añover	Date: October 24, 2006

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
848524



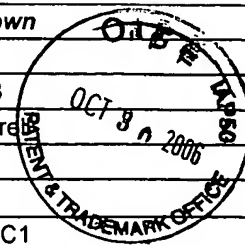
See pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2006

Complete if Known

Application Number	10/612,713
Filing Date	July 1, 2003
First Named Inventor	David A. Tirrell
Examiner Name	David Guzo
Art Unit	1636
Attorney Docket No.	110197.402C1



☐ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT (\$180.00)**

**METHOD OF PAYMENT (check all that apply)**

☒ Check ☐ Credit Card ☐ Money Order ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 19-1090 Deposit Account Name: Seed IP Law Group PLLC

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☐ Charge any additional fee(s) or underpayments ☒ Charge any underpayments or credit any overpayments of fee(s) under 37 CFR 1.16 and 1.17

Warning: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)**

### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Provisional	200	100	0	0	0	0	_____

### 2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
_____ -20 or HP = _____	X	_____	_____	Fee (\$)
_____	_____	_____	_____	Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____ -3 or HP = _____	X	_____	_____

HP = highest number of independent claims paid for, if greater than 3.

### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)) the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ -100 = _____	/50 = _____	_____ (round up to a whole number)	x _____	_____

### 4. OTHER FEE(S)

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	_____
Other (e.g., late filing surcharge): <u>Submission of Information Disclosure Statement</u>	<u>180</u>

### SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	44,614	Telephone	206-622-4900
Name (Print/Type)	William T. Christiansen, Ph.D.	Date	October 24, 2006		



PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

October 24, 2006  
Date

  
Jason Añover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : David A. Tirrell et al.  
Application No. : 10/612,713  
Filed : July 1, 2003  
For : OVEREXPRESSION OF AMINOACYL-tRNA SYNTHETASES  
FOR EFFICIENT PRODUCTION OF ENGINEERED PROTEINS  
CONTAINING AMINO ACID ANALOGUES

Examiner : David Guzo  
Art Unit : 1636  
Docket No. : 110197.402C1  
Date : October 24, 2006

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents:


In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Information Disclosure Statement. Copies of cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of any other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such

reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

A fee of \$180 is submitted in accordance with 37 CFR 1.97(c). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

A handwritten signature in black ink, appearing to read 'W. T. Christiansen', is written over a horizontal line.

William T. Christiansen, Ph.D.  
Registration No. 44,614

Enclosures:  
Check  
Information Disclosure Statement  
Cited References (86)

701 Fifth Avenue, Suite 6300  
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Fax: (206) 682-6031

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

110197.402C1

APPLICATION NO.

10/612,713

## SUPPLEMENTAL

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

David A. Tirrell et al.

FILING DATE

July 1, 2003

GROUP ART UNIT

1636

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5,370,995	12/06/94	Hennecke et al.	435	69.1	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
AB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	Bain, J., et al., "Biosynthetic Site-specific Incorporation of a Non-natural Amino Acid into a Polypeptide," <i>J. Am. Chem. Soc.</i> , 111:8013-8014, 1989.
AD	Barton, D., et al., "Synthesis of Novel $\alpha$ -Amino-Acids and Derivatives Using Radical Chemistry: Synthesis of L- and D- $\alpha$ -Amino-Adipic Acids, L- $\alpha$ -aminopimelic Acid and Appropriate Unsaturated Derivatives," <i>Tetrahedron</i> , 43:4297-4308, 1987.
AE	Bradley, D., et al., tRNA <sup>Gln</sup> Su <sup>+</sup> 2 Mutants that Increase Amber Suppression," <i>J Bacteriol.</i> , 145(2):704-12, February 1981.
AF	Brick, P., et al., "Structure of Tyrosyl-tRNA Synthetase Refined at 2.3 Å Resolution. Interaction of the Enzyme with the Tyrosyl Adenylate Intermediate," <i>J. Mol. Biol.</i> , 208(1):83-98, 1989.
AG	Budisa, N., et al., "Bioincorporation of Telluromethionine into Proteins: a Promising New Approach for X-ray Structure Analysis of Proteins," <i>J Mol Biol.</i> , 270(4):616-23, July 25, 1997.
AH	Budisa, N., et al., "High-level Biosynthetic Substitution of Methionine in Proteins by its Analogs 2-aminohexanoic Acid, Selenomethionine, Telluromethionine and Ethionine in Escherichia coli," <i>Eur. J. Biochem</i> , 230(2):788-796, 1995.
AI	Budisa, N., et al., "Residue-specific Bioincorporation of Non-natural, Biologically Active Amino Acids into Proteins as Possible Drug Carriers: Structure and Stability of the Per-thiaproline Mutant of Annexin V," <i>Proc Natl Acad Sci U S A</i> , 95(2):455-9, January 20, 1998.
AJ	Budisa, N., et al., "Toward the Experimental Codon Reassignment in Vivo: Protein Building with an Expanded Amino Acid Repertoire," <i>FASEB J.</i> , 13(1):41-51, January 1999.
AK	Christie, B., et al., "Synthesis of Optically Pure Pipecolates from L-Asparagine. Application to the Total Synthesis of (+)-Apovincamine through Amino Acid Decarbonylation and Iminium Ion Cyclization," <i>J. Org. Chem.</i> , 50:1239-1246, 1985.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

<b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>SUPPLEMENTAL</b> <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				ATTY. DOCKET NO. 110197.402C1		APPLICATION NO. 10/612,713	
				APPLICANTS David A. Tirrell et al.			
				FILING DATE July 1, 2003		GROUP ART UNIT 1636	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION
							YES NO
	BB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	BC	Cornish, V., et al., "Site-specific Protein Modification Using a Ketone Handle," <i>J. Am. Chem. Soc.</i> , 118:8150-8151, 1996.					
	BD	Doctor, B., et al., "Species Specificity Of Amino Acid Acceptor Ribonucleic Acid And Aminoacyl Soluble Ribonucleic Acid Synthetases," <i>J Biol Chem.</i> , 238:3677-81, November 1963.					
	BE	Döring, V., et al., "Enlarging the Amino Acid set of Escherichia coli by Infiltration of the Valine Coding Pathway," <i>Science</i> , 292(5516):501-4, April 20, 2001.					
	BF	Dougherty, D., "Unnatural Amino Acids as Probes of Protein Structure and Function," <i>Curr Opin Chem Biol.</i> , 4(6):645-52, December 2000.					
	BG	Ellman, J., et al., "Biosynthetic Method for Introducing Unnatural Amino Acids Site-Specifically Into Proteins," <i>Methods Enzymol.</i> , 202:301-36, 1991.					
	BH	Ellman, J., et al., "Site-specific Incorporation of Novel Backbone Structures into Proteins," <i>Science</i> , 255(5041):197-200, January 10, 1992.					
	BI	England, P., et al., "Backbone Mutations in Transmembrane Domains of a Ligand-gated Ion Channel: Implications for the Mechanism of Gating," <i>Cell</i> , 96(1):89-98, January 8, 1999.					
	BJ	Fechter, P., et al., "Major Tyrosine Identity Determinants in Methanococcus Jannaschii and Saccharomyces cerevisiae tRNA(Tyr) are Conserved but Expressed Differently," <i>Eur J Biochem.</i> , 268(3):761-7, February 2001.					
	BK	Francisco, J., et al., "Production and Fluorescence-activated Cell Sorting of Escherichia coli Expressing a Functional Antibody Fragment on the External Surface," <i>Proc Natl Acad Sci U S A.</i> , 90(22):10444-8, November 15, 1993.					
	BL	Friedman, O., et al., "Synthesis of Derivatives of Glutamine as Model Substrates for Anti-Tumor Agents," <i>J. Am. Chem. Soc.</i> , 81:3750-3752, 1959.					
	BM	Furter, R., "Expansion of the Genetic Code: Site-directed p-fluoro-phenylalanine Incorporation in Escherichia coli," <i>Protein Sci.</i> , 7(2):419-26, February 1998.					
EXAMINER				DATE CONSIDERED			
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	APPLICANTS David A. Tirrell et al.	
	FILING DATE July 1, 2003	GROUP ART UNIT 1636

### U.S. PATENT DOCUMENTS

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CA						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
CB					

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	Gabriel, K., et al., "A Set of Plasmids Constitutively Producing Different RNA Levels in Escherichia coli," <i>J Mol Biol.</i> , 290(2):385-9, July 9, 1999.
CD	Gallivan, J., et al., "Site-specific Incorporation of Biotinylated Amino Acids to Identify Surface-exposed Residues in Integral Membrane Proteins," <i>Chem Biol.</i> , 4(10):739-49, October 1997.
CE	Gay, G., et al., "Modification of the Amino Acid Specificity of Tyrosyl-tRNA Synthetase by Protein Engineering," <i>FEBS Letters</i> , 318:167-171, 1993.
CF	Giegé, R., et al., "Aspartate Identity of Transfer RNAs," <i>Biochimie</i> 78(7):605-23, 1996.
CG	Giegé, R., et al., "Universal Rules and Idiosyncratic Features in tRNA Identity," <i>Nucleic Acids Res.</i> , 26(22):5017-35, November 15, 1998.
CH	Guckian, K., et al., "Highly Precise Shape Mimicry by a Difluoro-toluene Deoxynucleoside, a Replication-Competent Substitute for Thymidine," <i>Angew Chem. Int. Ed. Engl.</i> 36(24):2825-2828, 1997.
CI	Hamano-Takaku, F., et al., "A Mutant Escherichia coli Tyrosyl-tRNA Synthetase Utilizes the Unnatural Amino Acid Azatyrosine more Efficiently than Tyrosine," <i>J Biol Chem.</i> , 275(51):40324-8, December 22, 2000.
CJ	Hartley, R., "Barnase and Barstar. Expression of its Cloned Inhibitor Permits Expression of a Cloned Ribonuclease," <i>J Mol Biol.</i> , 202(4):913-5, August 20, 1988.
CK	Hohsaka, T., et al., "Efficient Incorporation of Nonnatural Amino Acids with Large Aromatic Groups into Streptavidin in In Vitro Protein Synthesizing Systems," <i>J. Am. Chem. Soc.</i> , 121:34, 1999.
CL	Ibba, M., et al., "Relaxing the Substrate Specificity of an Aminoacyl-tRNA Synthetase Allows in vitro and in vivo Synthesis of Proteins Containing Unnatural Amino Acids," <i>FEBS Lett.</i> , 364(3):272-5, May 15, 1995.

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	July 1, 2003	1636

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DA						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
DB					

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Ibba, M., et al., "Substrate Specificity is Determined by Amino acid Binding Pocket Size in Escherichia coli Phenylalanyl-tRNA Synthetase," <i>Biochemistry</i> , 33(23):7107-12, June 14, 1994.
DD	Ibba, M., "Strategies for in vitro and in vivo Translation with Non-natural Amino Acids," <i>Biotechnol Genet Eng Rev.</i> 13:197-216, December 1995.
DE	Jakubowski, H., et al., "Editing of Errors in Selection of Amino Acids for Protein Synthesis," <i>Microbiol Rev.</i> , 56(3):412-29, September 1992.
DF	Jeruzalmi, D., et al., "Structure of T7 RNA Polymerase Complexed to the Rranscriptional Inhibitor T7 Lysozyme," <i>EMBO J.</i> , 17(14):4101-13, July 15, 1998.
DG	Kiick, K., et al., "Protein Engineering by In Vivo Incorporation of Non-Natural Amino Acids: Control Of Incorporation of Methionine Analogues by Methionyl-tRNA Synthetase," <i>Tetrahedron</i> , 56:9487-9493, 2000.
DH	King, F., et al., "A New Synthesis of Glutamine and of $\gamma$ -Dipeptides of Glutamic Acid from Phthalylated Intermediates," <i>J. Chem. Soc.</i> , 4:3315-3319, 1949.
DI	Kleeman, T., et al., "Human Tyrosyl-tRNA Synthetase Shares Amino Acid Sequence Homology with a Putative Cytokine," <i>J Biol Chem.</i> , 272(22):14420-5, May 30, 1997.
DJ	Kleina, L., et al., "Construction of Escherichia coli Amber Suppressor tRNA Genes. II. Synthesis of Additional tRNA Genes and Improvement of Suppressor Efficiency," <i>J Mol Biol.</i> , 213(4):705-17, June 20, 1990.
DK	Kool, E., "Synthetically Modified DNAs as Substrates for Polymerases," <i>Curr Opin Chem Biol.</i> , 4(6):602-8, December 2000.
DL	Koskinen, et al., "Synthesis of 4-Substituted Prolines as Conformationally Constrained Amino Acid Analogues," <i>J. Org. Chem.</i> 54:1859-1866, 1989.
DM	Kowal, A., et al., "Exploiting Unassigned Codons in Micrococcus Luteus for tRNA-based Amino Acid Mutagenesis," <i>Nucleic Acids Res.</i> , 25(22):4685-9, November 15, 1997.

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EA						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
EB					

### OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EC	Kowal, A., et al., "Twenty-first Aminoacyl-tRNA Synthetase-suppressor tRNA Pairs for Possible Use in Site-specific Incorporation of Amino Acid Analogues into Proteins in Eukaryotes and in Eubacteria," <i>Proc Natl Acad Sci U S A.</i> , 98(5):2268-73, February 27, 2001.
ED	Lee, J-Y., et al., "Novel Biological Process for L-DOPA Production from L-Tyrosine by <i>p</i> -hydroxyphenylacetate 3-hydroxylase," <i>Biotechnology letters</i> , 20(5):479-482, May 1998.
EE	Liu, D., et al., "Characterization of an 'orthogonal' Suppressor tRNA Derived from <i>E. coli</i> tRNA <sup>Gln</sup> ," <i>Chem Biol.</i> , 4(9):685-91, September 1997.
EF	Lorincz, M., et al., "Enzyme-generated Intracellular Fluorescence for Single-cell Reporter Gene Analysis Utilizing <i>Escherichia Coli</i> Beta-glucuronidase," <i>Cytometry</i> , 24(4):321-9, August 1, 1996.
EG	Lu, T., et al., "Probing Ion Permeation and Gating in a K <sup>+</sup> Channel with Backbone Mutations in the Selectivity Filter," <i>Nat Neurosci.</i> , 4(3):239-46, March 2001.
EH	Ma, C., et al., "In Vitro Protein Engineering Using Synthetic tRNA <sup>Ala</sup> with Different Anticodons," <i>Biochemistry</i> , 32(31):7939-45, August 10, 1993.
EI	Matsoukas, J., et al., "Differences in Backbone Structure Between Angiotensin II Agonists and Type I Antagonists," <i>J Med Chem.</i> , 38(23):4660-9, November 10, 1995.
EJ	McMinn, D., et al., "Efforts Toward Expansion of the Genetic Alphabet: DNA Polymerase Recognition of a Highly Stable, Self-Pairing Hydrophobic Base," <i>J. Am. Chem. Soc.</i> , 121:11585-11586, 1999.
EK	Meggers, E., et al., "A Novel Copper-Mediated DNA Base Pair," <i>J. Am. Chem. Soc.</i> , 122:10714-15, 2000.
EL	Mendel, D., et al., "Site-directed Mutagenesis with an Expanded Genetic Code," <i>Annu Rev Biophys Biomol Struct.</i> , 24:435-62, 1995.

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FA						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
FB					

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FC	Miller, J., et al., "Flash Decaging of Tyrosine Sidechains in an Ion Channel," <i>Neuron</i> , 20(4):619-24, April 1998.
FD	Minks, C., et al., "Noninvasive Tracing of Recombinant Proteins with "Fluorophenylalanine-fingers," <i>Anal Biochem.</i> , 284(1):29-34, August 15, 2000.
FE	Moore, B., et al., "Quadruplet Codons: Implications for Code Expansion and the Specification of Translation Step Size," <i>J Mol Biol.</i> , 298(2):195-209, April 28, 2000.
FF	Nickitenko, A., et al., 2 Å Resolution Structure of DppA, a Periplasmic Dipeptide Transport/Chemosensory Receptor," <i>Biochemistry</i> , 34(51):16585-95, December 26, 1995.
FG	Nilsson, B., et al., "A Synthetic IgG-binding Domain Based on Staphylococcal Protein A," <i>Protein Eng.</i> , 1(2):107-13, Feb-Mar 1987.
FH	O'Mahony, D., et al., "Glycine tRNA Mutants with Normal Anticodon Loop Size Cause -1 Frameshifting," <i>Proc Natl Acad Sci U S A.</i> , 86(20):7979-83, October 1989.
FI	Ogawa, A., et al., "Efforts Toward the Expansion of the Genetic Alphabet: Information Storage and Replication with Unnatural Hydrophobic Base Pairs," <i>J. Am. Chem. Soc.</i> 122:3274-3287, 2000.
FJ	Ogawa, A., et al., "Rational Design of an Unnatural Base Pair with Increased Kinetic Selectivity," <i>J. Am. Chem. Soc.</i> , 122:8803-8804, 2000
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>SUPPLEMENTAL</b> <b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)	ATTY. DOCKET NO. 110197.402C1	APPLICATION NO. 10/612,713
	APPLICANTS David A. Tirrell et al.	
	FILING DATE July 1, 2003	GROUP ART UNIT 1636

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
GA						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
				YES NO
GB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GC	Saks, M., et al., "An Engineered Tetrahymena tRNA <sup>Gln</sup> for in Vivo Incorporation of Unnatural Amino Acids into Proteins by Nonsense Suppression," <i>J Biol Chem.</i> , 271(38):23169-75, September 20, 1996.
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HA						

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HC	Tae, E., et al., "Efforts Toward Expansion of the Genetic Alphabet: Replication of DNA with Three Base Pairs," <i>J Am Chem Soc.</i> , 123(30):7439-40, August 1, 2001.
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